ABSTRACT OF THE DISCLOSURE

An improved data communication network including a wireless link for accessing, from an end user machine, objects in a selected web page retrievable from an Internet server by means of suitable request messages is described. The wireless link includes a subscriber unit coupled to the end user machine and a base station coupled to the server. Web page data packets retrieved from the server with the use of the request messages are intercepted and locally stored in a gateway unit on the base station side of the wireless link. The gateway unit generates, from the retrieved web page data packets, additional request messages suitable for retrieving, from the server, object data packets corresponding to the objects on the selected web page. Such retrieved object data packets are also stored in the gateway unit. At least a portion of the stored object data packets, together with the stored web page data packets, are selectively released for transmission in bundled form over a single assigned channel on the wireless link. Such transmitted object data packets are locally stored in an additional gateway unit on the subscriber unit side of the wireless link, while the transmitted web page data packets are forwarded to the end user machine. The end user machine re-generates the object retrieval request messages, which in turn are used to directly retrieve the object data packets locally stored in the additional gateway without the necessity of again traversing the wireless link.